

Product Information

Hydroxyl/*t*-Butyl protected carboxyl PEG reagent, Hydroxy-PEG5-CH₂CO₂tBu, Purity 95%

Cat. No.: X24-03-YW0714

Size: 250 mg; 500 mg; 1 g; 5 g

MDL: MFCD27977509

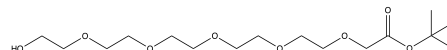
CAS Number: 1807530-05-7

PubChem CID: 77078247

Synonym: 1807530-05-7; Hydroxy-PEG5-CH₂CO₂tBu; Hydroxy-PEG5-*t*-Butyl

acetate; Hydroxy-PEG4-O-Boc; HO-PEG5-CH₂COOtBu

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Hydroxy-PEG5-CH ₂ CO ₂ tBu is a PEG linker composed of a terminal hydroxyl group and a <i>t</i> -butyl-protected carboxyl group. The PEG5 spacer enhances water solubility and hydrophilicity, while the hydroxyl group provides a versatile site for chemical modifications. The <i>t</i> -butyl group offers acid-labile protection, allowing precise carboxyl group activation under controlled conditions.
Molecular Weight	352.4
Molecular Formula	C ₁₆ H ₃₂ O ₈
Functional Group 1	Hydroxyl
Functional Group 2	<i>t</i> -Butyl protected carboxyl
Reactive Group 1	Acid
Reactive Group 2	Nucleophile
IUPAC Name	<i>Tert</i> -butyl 2-[2-[2-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]acetate
InChI	InChI=1S/C16H32O8/c1-16(2,3)24-15(18)14-23-13-12-22-11-10-21-9-8-20-7-6-19-5-4-17/h17H,4-14H2,1-3H3
InChI Key	XPLBSNFHNMATJJ-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)COCCOCCOCCOCCOCCO
Form	Liquid
Purity	95%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications	Hydroxy-PEG5-CH ₂ CO ₂ tBu is utilized in research for the synthesis of functionalized molecules and the study of biomolecular interactions. The hydroxyl group facilitates modifications for experimental purposes, and the t-butyl-protected carboxyl group is used in controlled deprotection studies, making it suitable for developing linkers and model compounds in research and development projects.
Storage	Store at -20°C.